B. AMENDMENT TO CLAIMS

- 1. (Currently Amended) A process for reducing the amount of a pollutant in a flue gas resulting from combustion of fossil fuel in a boiler comprising:
 - (a) providing an alkaline admixture having a <u>siloxane</u> coating agent that improves dispersability and delays calcination of the alkaline admixture within a combustion zone; and
 - (b) introducing the alkaline admixture to the boiler to create a reaction that reduces the amount of the pollutant in the flue gas.
- (Original) A process as recited in claim 1 wherein the alkaline admixture is comprised of CaO, CaCO₃, MgO and MgCO₃.
- 3. (Original) A process as recited in claim 2 wherein a physical size of the alkaline admixture is greater than 50% minus 200 mesh.
- (Currently Amended) A process as recited in claim 2 wherein the amount of CaO,
 CaCO₃, MgO and MgCO₃ are each from 10 to 35% by weight of the total weight of the alkaline admixture.

A process for reducing the amount of a pollutant in a flue gas resulting from combustion.

of fossil fuel in a boiler comprising:

- (a) providing an alkaline admixture comprised of CaO, CaCO₃, MgO and MgCO₃ having a coating agent that improves dispersability and delays calcination of the alkaline admixture within a combustion zone, the amount of CaO, CaCO₃, MgO and MgCO₃ are each from 10 to 35% by weight of the total weight of the alkaline admixture; and
- (b) introducing the alkaline admixture to the boiler to create a reaction that reduces the amount of the pollutant in the flue gas.
- 5. (Currently Amended) A process as recited in claim 1 wherein an amount of the coating agent is from .05 to .15 percent by weight of the alkaline admixture.

A process for reducing the amount of a pollutant in a flue gas resulting from combustion of fossil fuel in a boiler comprising:

- (a) providing an alkaline admixture having a coating agent that improves

 dispersability and delays calcination of the alkaline admixture within a

 combustion zone, the amount of the coating agent is from .05 .15 percent

 by weight of the alkaline admixture; and
- (b) introducing the alkaline admixture to the boiler to create a reaction that reduces the amount of the pollutant in the flue gas.

6. (Currently Amended) The method as recited in claim 1 wherein the alkaline admixture has at least 5% magnesium by weight of the alkaline admixture.

A process for reducing the amount of a pollutant in a flue gas resulting from combustion of fossil fuel in a boiler comprising:

- (a) providing an alkaline admixture comprising at least 5% magnesium by

 weight of the alkaline admixture, the alkaline admixture having a coating

 agent that improves dispersability and delays calcination of the alkaline

 admixture within a combustion zone; and
- (b) introducing the alkaline admixture to the boiler to create a reaction that reduces the amount of the pollutant in the flue gas.
- (Currently Amended) The method as recited in claim 1 wherein the pollutant is sulfur trioxide.

A process for reducing the amount of sulfur trioxide in a flue gas resulting from combustion of fossil fuel in a boiler comprising:

- (a) providing an alkaline admixture having a coating agent that improves

 dispersability and delays calcination of the alkaline admixture within a

 combustion zone; and
- (b) introducing the alkaline admixture to the boiler to create a reaction that reduces the amount of sulfur trioxide in the flue gas.

- 8. (Original) A process as recited in claim 7 wherein an amount of coated alkaline admixture is from 2 to 15 moles of total alkalinity per mole of sulfur trioxide removed.
- (Currently Amended) The method as recited in claim 1 wherein the pollutant is mercury.
 A process for reducing the amount of mercury in a flue gas resulting from combustion of fossil fuel in a boiler comprising:
 - (a) providing an alkaline admixture having a coating agent that improves

 dispersability and delays calcination of the alkaline admixture within a

 combustion zone; and
 - (b) introducing the alkaline admixture to the boiler to create a reaction that reduces the amount of mercury in the flue gas.
- 10. (Currently Amended) The method as recited in claim 1 wherein the pollutant is arsenic.
 A process for reducing the amount of arsenic in a flue gas resulting from combustion of fossil fuel in a boiler comprising:
 - (a) providing an alkaline admixture having a coating agent that improves

 dispersability and delays calcination of the alkaline admixture within a

 combustion zone; and
 - (b) introducing the alkaline admixture to the boiler to create a reaction that

 reduces the amount of arsenic in the flue gas.

- 11. (Currently Amended) A process for reducing the amount of a pollutant from a flue gas resulting from combustion of fossil fuel comprising:
 - (a) providing an alkaline admixture having a coating agent that improves dispersability and delays calcination of the alkaline admixture within a combustion zone; and
 - (b) adding the alkaline admixture to a fossil fuel feed within a combustion

 zone and thereby introducing the alkaline admixture to the boiler to create

 a reaction that reduces the amount of the pollutant in the flue gas.
- 12. (Original) A process as recited in claim 11 wherein the alkaline admixture is comprised of CaO, CaCO₃, MgO and MgCO₃.
- 13. (Original) A process as recited in claim 12 wherein the amount of CaO, CaCO₃, MgO and MgCO₃ are each from 10 to 35% by weight of the total weight of the alkaline admixture.
- 14. (Original) A process as recited in claim 11 wherein a physical size of the alkaline admixture is greater than 50% minus 200 mesh.

- 15. (Original) A process as recited in claim 11 wherein an amount of the coating agent is from .05 to .15 percent by weight of the alkaline admixture.
- 16. (Original) The method as recited in claim 11 wherein the alkaline admixture has at least5% magnesium by weight of the alkaline admixture.
- 17. (Original) The method as recited in claim 11 wherein the pollutant is sulfur trioxide.
- 18. (Original) A process as recited in claim 17 wherein an amount of alkaline admixture isfrom 2 to 15 moles of total alkalinity per mole of sulfur trioxide removed.
- 19. (Original) The method as recited in claim 11 wherein the pollutant is mercury.
- 20. (Original) The method as recited in claim 11 wherein the pollutant is arsenic.
- 21. (Cancelled)
- 22. (Previously Presented) The method as recited in claim 1 wherein the amount of the coating agent is .05 to .15 percent by weight of the alkaline admixture.